

# EAST SEARCH FOR 10-501,301

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	152	(miniaturized or miniturized) adj (reactor or reaction)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T
2	BRS	L2	1642	(micro) adj (reactor or reaction)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T
3	BRS	L3	50	2 and (nanoparticle or nanocrystal)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T
4	BRS	L4	47	2 and "423".clas.	USPAT
5	BRS	L5	90	2 and "422".clas.	USPAT

	Time Stamp	Comments	Error Definition	Errors
1	2006/09/12 13:30			
2	2006/09/12 13:32			
3	2006/09/12 13:32			
4	2006/09/12 13:49			
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L1: Entry 2 of 2

File: DWPI

Nov 1, 2004

DERWENT-ACC-NO: 2001-081643

DERWENT-WEEK: 200474

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TITLE: Continuous preparation of non-agglomerating, uniform micro- or nano-particles, e.g. for encapsulating drugs, from biodegradable synthetic and/or natural materials using micromixer

INVENTOR: HARNISCH, S ; HILDEBRAND, G ; TACK, J

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SCHERING AG

SCHD

PRIORITY-DATA: 1999DE-1025184 (May 26, 1999)

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## PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/>	<a href="#">ES 2216907 T3</a>	November 1, 2004		000	B01J013/02
<input type="checkbox"/>	<a href="#">DE 19925184 A1</a>	November 30, 2000		013	B01J013/04
<input type="checkbox"/>	<a href="#">WO 200072955 A1</a>	December 7, 2000	G	000	B01J013/02
<input type="checkbox"/>	<a href="#">AU 200058043 A</a>	December 18, 2000		000	B01J013/02
<input type="checkbox"/>	<a href="#">EP 1180062 A1</a>	February 20, 2002	G	000	B01J013/02
<input type="checkbox"/>	<a href="#">JP 2003500202 W</a>	January 7, 2003		041	B01J013/06
<input type="checkbox"/>	<a href="#">EP 1180062 B1</a>	March 10, 2004	G	000	B01J013/02
<input type="checkbox"/>	<a href="#">DE 50005599 G</a>	April 15, 2004		000	B01J013/02

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
ES 2216907T3	May 24, 2000	2000EP-0943639	
ES 2216907T3		EP 1180062	Based on
DE 19925184A1	May 26, 1999	1999DE-1025184	
WO 200072955A1	May 24, 2000	2000WO-DE01677	
AU 200058043A	May 24, 2000	2000AU-0058043	
AU 200058043A		WO 200072955	Based on

EP 1180062A1	May 24, 2000	2000EP-0943639	
EP 1180062A1	May 24, 2000	2000WO-DE01677	
EP 1180062A1		WO 200072955	Based on
JP2003500202W	May 24, 2000	2000JP-0621058	
JP2003500202W	May 24, 2000	2000WO-DE01677	
JP2003500202W		WO 200072955	Based on
EP 1180062B1	May 24, 2000	2000EP-0943639	
EP 1180062B1	May 24, 2000	2000WO-DE01677	
EP 1180062B1		WO 200072955	Based on
DE 50005599G	May 24, 2000	2000DE-0505599	
DE 50005599G	May 24, 2000	2000EP-0943639	
DE 50005599G	May 24, 2000	2000WO-DE01677	
DE 50005599G		EP 1180062	Based on
DE 50005599G		WO 200072955	Based on

INT-CL (IPC): A61K 9/16; A61K 9/50; A61K 9/51; A61K 47/04; A61K 47/06; A61K 47/10; A61K 47/14; A61K 47/26; A61K 47/32; A61K 47/34; A61K 47/36; A61K 47/38; A61K 47/42; A61K 47/44; A61K 49/00; B01F 3/00; B01F 5/06; B01J 13/02; B01J 13/04; B01J 13/06; C08J 3/02; C08L 101/00

ABSTRACTED-PUB-NO: DE 19925184A

BASIC-ABSTRACT:

NOVELTY - A continuous method for preparing micro- or nano-particles of uniform morphology from biodegradable synthetic and/or natural materials (I) involves using a micromixer.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for micro-particles of uniform morphology obtained by the process.

USE - The process is specifically used for encapsulating active agents or preparing active agent particles (claimed), for use in medicament formulations.

The active agents used in examples include ethinylestradiol, estradiol, testosterone, gestodene and levonorgestrel.

ADVANTAGE - By using a micromixer, non-agglomerating micro- or nano-particles of uniform morphology can be obtained by a continuous process, without use of organic solvents (or using toxicologically acceptable solvents). The process can easily be scaled up from laboratory scale to production scale (specifically by using several micromixers in parallel or by using mixer arrays), and is suitable for use with drugs. Problems of contamination of the product and decomposition of active agents are avoided.

CHOSEN-DRAWING: Dwg.0/10

TITLE-TERMS: CONTINUOUS PREPARATION NON AGGLOMERATE UNIFORM MICRO NANO PARTICLE ENCAPSULATE DRUG BIODEGRADABLE SYNTHETIC NATURAL MATERIAL

DERWENT-CLASS: A11 A14 A28 A96 B07

CPI-CODES: A11-B05; A12-V01; A12-W05; B01-A02; B01-C05; B04-B01B; B04-C02; B04-C03; B04-N04; B05-B01P; B11-C09; B12-M11E;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*  
Fragmentation Code  
M423 M431 M782 M905 N104 R033  
Specific Compounds  
A00I9K A00I9M

## Chemical Indexing M1 \*02\*

Fragmentation Code

M423 M431 M782 M904 M905 N104 R033

Specific Compounds

24033K 24033M

## Chemical Indexing M1 \*03\*

Fragmentation Code

M423 M431 M782 M905 N104 R033

Specific Compounds

A20EOK A20EOM

## Chemical Indexing M1 \*04\*

Fragmentation Code

A111 A960 C710 J0 J011 J1 J111 M423 M431 M782

M904 M905 M910 N104 R033

Specific Compounds

06725K 06725M

Registry Numbers

1866U

## Chemical Indexing M1 \*05\*

Fragmentation Code

F012 F013 F014 F016 F019 F123 F199 H1 H100 H121

H4 H404 H405 H421 H422 H423 H424 H482 H483 H484

H581 H582 H583 H584 H589 H8 K0 L8 L814 L821

L822 L823 L824 L834 M280 M311 M323 M342 M373 M393

M413 M423 M431 M510 M521 M522 M523 M530 M540 M782

M904 M905 N104 R033

Specific Compounds

03882K 03882M 07813K 07813M

## Chemical Indexing M1 \*06\*

Fragmentation Code

M423 M431 M782 M904 M905 M910 N104 R033

Specific Compounds

01852K 01852M

Registry Numbers

1852U

## Chemical Indexing M1 \*07\*

Fragmentation Code

H5 H521 H8 M210 M211 M272 M281 M320 M423 M431

M782 M904 M905 M910 N104 R033

Specific Compounds

01860K 01860M A02KXK A02KXM

Registry Numbers

1860U

## Chemical Indexing M1 \*08\*

Fragmentation Code

H5 H521 H8 M210 M212 M272 M281 M320 M423 M431

M782 M904 M905 M910 N104 R033

Specific Compounds

01858K 01858M A02KYK A02KYM

Registry Numbers

1858U

## Chemical Indexing M1 \*09\*

Fragmentation Code

H4 H401 H481 H5 H521 H8 M280 M313 M321 M332

M342 M383 M391 M423 M431 M782 M904 M905 N104 R033

Specific Compounds

03005K 03005M

## Chemical Indexing M1 \*10\*

## Fragmentation Code

A111 A960 C710 H5 H521 H8 J0 J011 J1 J171

M280 M311 M321 M342 M349 M381 M391 M423 M431 M630

M782 M904 M905 M910 N104 R033

## Specific Compounds

07352K 07352M A0GUZK A0GUZM

## Registry Numbers

1835U

## Chemical Indexing M1 \*11\*

## Fragmentation Code

J0 J011 J1 J111 J2 J211 K0 L8 L811 L815

L817 L818 L831 L832 M210 M211 M272 M280 M281 M320

M423 M431 M520 M523 M530 M540 M782 M904 M905 N104

R033

## Specific Compounds

17032K 17032M

## Chemical Indexing M1 \*12\*

## Fragmentation Code

K0 L8 L814 L816 L831 L832 M423 M431 M782 M904

M905 N104 R033

## Specific Compounds

16377K 16377M

## Chemical Indexing M1 \*13\*

## Fragmentation Code

M423 M431 M782 M904 M905 M910 N104 R033

## Specific Compounds

01863K 01863M

## Registry Numbers

1863U

## Chemical Indexing M1 \*14\*

## Fragmentation Code

M423 M431 M782 M905 N104 R033

## Specific Compounds

A01PMK A01PMM

## Chemical Indexing M1 \*15\*

## Fragmentation Code

H4 H401 H481 H7 H713 H721 H8 M210 M212 M272

M281 M320 M423 M431 M510 M520 M530 M540 M782 M904

M905 N104 R033

## Specific Compounds

A01EAK A01EAM

## Chemical Indexing M1 \*16\*

## Fragmentation Code

F012 F013 F014 F113 H4 H401 H481 H5 H522 H589

H8 M210 M212 M272 M283 M312 M322 M332 M342 M343

M373 M383 M391 M423 M431 M510 M521 M530 M540 M782

M904 M905 N104 R033

## Specific Compounds

A014CK A014CM

## Chemical Indexing M1 \*17\*

## Fragmentation Code

M423 M431 M782 M905 N104 R033

## Specific Compounds

A0120K A0120M

## Chemical Indexing M2 \*18\*

## Fragmentation Code

H4 H401 H481 H8 M225 M231 M272 M281 M320 M416  
M431 M620 M782 M904 M905 M910 N104 R033

## Specfic Compounds

00955K 00955M

## Registry Numbers

0955U

## Chemical Indexing M5 \*19\*

## Fragmentation Code

M431 M782 M904 M905 M910 N104 R033

## Specfic Compounds

00141K 00141M

## Registry Numbers

0141U

## Chemical Indexing M5 \*20\*

## Fragmentation Code

M431 M782 M904 M905 M910 N104 R033

## Specfic Compounds

00014K 00014M

## Registry Numbers

0014U

## Chemical Indexing M5 \*21\*

## Fragmentation Code

M431 M782 M904 M905 M910 N104 R033

## Specfic Compounds

00156K 00156M

## Registry Numbers

0156U

## Chemical Indexing M5 \*22\*

## Fragmentation Code

M431 M782 M904 M905 N104 R033

## Specfic Compounds

06859K 06859M

## Chemical Indexing M5 \*23\*

## Fragmentation Code

M431 M782 M904 M905 N104 R033

## Specfic Compounds

04886K 04886M 13690K 13690M

## Chemical Indexing M6 \*24\*

## Fragmentation Code

M905 R033 R112 R511 R530 R534

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0014U ; 0141U ; 0156U ; 0955U ; 1835U ; 1852U ; 1858U ;  
1860U ; 1863U ; 1866U

## ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; G4068 G2131 D01 D10 D11 D22 D23 D31 D46 D50 D76 D86 F43 ; R17298  
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S9999 S1387 ; S9999 S1025 S1014 ; H0000 ; H0022 H0011 ; P0055 ; P1978\*R P0839 D01 D50 D63 F41  
Polymer Index [1.2] 018 ; G1309 G1296 D01 D63 F44 D23 D22 D31 D76 D46 D50 D84 ; R17298 G2131  
D01 D23 D22 D31 D46 D50 D84 F43 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999  
S1387 ; S9999 S1025 S1014 ; H0022 H0011 ; H0260 ; P0055 ; P0839\*R F41 D01 D63 ; P0862 P0839 F41  
F44 D01 D63 Polymer Index [1.3] 018 ; G4068 G2131 D01 D10 D11 D22 D23 D31 D46 D50 D76 D86 F43  
G2142 D31 D88 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999

S1025 S1014 ; H0022 H0011 ; P0055 ; P1978\*R P0839 D01 D50 D63 F41 Polymer Index [1.4] 018 ; G4068 G2131 D01 D10 D11 D22 D23 D31 D46 D50 D76 D86 F43 G2142 D31 D42 D85 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 ; H0022 H0011 ; P0055 ; P1978\*R P0839 D01 D50 D63 F41 Polymer Index [1.5] 018 ; G4068 G2131 D01 D10 D11 D22 D23 D31 D46 D50 D76 D86 F43 ; R01295 G2131 D01 D23 D22 D31 D42 D50 D77 D86 F43 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 ; H0022 H0011 ; P0055 ; P1978\*R P0839 D01 D50 D63 F41 Polymer Index [1.6] 018 ; R24028 P0599 D01 D11 D10 D50 D63 D84 F41 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.7] 018 ; G3758 P0599 D01 D11 D10 D50 D84 D85 F89 F41 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.8] 018 ; G3758 P0599 D01 D11 D10 D50 D63 D83 F89 F41 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.9] 018 ; G1638 G1592 D01 D22 F34 G2142 G2131 F43 D23 D31 D76 D46 D50 D84 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 ; H0000 ; P0055 ; P0953 P0839 P0964 H0260 F34 F41 D01 D63 Polymer Index [1.10] 018 ; G2142 G2131 D01 F43 D23 D22 D31 D76 D42 D50 D85 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 ; H0000 ; P0055 ; P1978\*R P0839 D01 D50 D63 F41 Polymer Index [1.11] 018 ; R01295 G2131 D01 D23 D22 D31 D42 D50 D77 D86 F43 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 ; H0000 ; P0055 ; P1978\*R P0839 D01 D50 D63 F41 Polymer Index [1.12] 018 ; G3623\*R P0599 D01 ; R01857 R01863 D01 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29 F26 F34 H0293 P0599 G3623 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.13] 018 ; G3703 G3623 P0599 D01 D11 D10 D23 D22 D32 D76 D42 D50 D60 D93 F24 F29 F26 F36 F35 F93 F70 ; 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S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.19] 018 ; R03882 D01 D11 D10 D23 D22 D31 D42 D50 D76 D86 F08 F07 F24 F28 F26 F34 H0293 P0599 G3623 M2313 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.20] 018 ; R01852\*R G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29 F26 F34 H0293 P0599 G3623 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.21] 018 ; R01860 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D89 F24 F34 H0293 P0599 G3623 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.22] 018 ; R01858 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D92 F24 F34 H0293 P0599 G3623 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.23] 018 ; R03005 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D93 F24 F29 F26 F34 H0293 P0599 G3623 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.24] 018 ; R07352 R06717 G3678 G3634 G3623 D01 D03 D11 D10 D23 D22 D31 D42 D50 D61 D76 D92 F24 F34 F38 F35 Na 1A H0293 P0599 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.25] 018 ; R16377 D01 P0599 G3623 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.26] 018 ; R01863\*R D01 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29 F26 F34 H0293 P0599 G3623 ; S9999 S1401\*R ; S9999 S1616 S1605 ; S9999 S1627 S1605 ; S9999 S1387 ; S9999 S1025 S1014 Polymer Index [1.27] 018 ; N9999 N7330 N7023 ; B9999 B5209 B5185 B4740 ; N9999 N5947 ; N9999 N6144 ; ND01 ; Q9999 Q8037 Q7987 ; N9999 N6439 ; K9392 ; J9999 J2915\*R ; K9416 Polymer Index [1.28] 018 ; D01 D03 D11 D10 D23 D22 D75 D76 D42 D63 F24 F26\*R F41\*R ; A999 A635 A624 A566 Polymer Index [1.29] 018 ; D01 ; R01740 G2335 D00 F20 H\* O\* 6A ; A999 A475 Polymer Index [1.30] 018 ; A999 A715 A691 Polymer Index [2.1] 018 ; P1707 P1694 D01 ; A999 A635 A624 A566 ; A999 A782 Polymer Index [2.2] 018 ; R00351 G1558 D01 D23 D22 D31 D42 D50 D73 D82 F47 ; H0000 ; P0055 ; P8004 P0975 P0964 D01 D10 D11 D50 D82 F34 ; M9999 M2153\*R ; M9999 M2186 ; A999 A635 A624 A566 ; A999 A782 Polymer Index [2.3] 018 ; R00351 G1558 D01 D23 D22 D31 D42 D50 D73 D82 F47 ; R00370 G1558 D01 D11 D10 D23 D22 D31 D42 D50 D73 D83 F47 ; H0022 H0011 ; H0066 H0044 H0011 ; P0055 ; P0975\*R P0964 F34 D01 D10 ; A999 A635 A624 A566 ; A999 A782 Polymer Index [2.4] 018 ; Q9999 Q9110 ; ND01 ; Q9999 Q8037 Q7987 ; N9999 N6439 ; K9392 ; J9999 J2915\*R ; K9416

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